Author Index

Adamo, A.T., see Parrillo, D.J. 107

Amaya, M., see Haga, T. 189

Ancillotti, F., Forlani, O., Jóvér, B., Resofszki, G. and Gáti, Gy.
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. II. Comparison of catalysts 249

Ancillotti, F., see Forlani, O. 237

Ando, H., see Uemiya, S. 223

Barbier, J., Dumas, J.M., Geron, C. and Hadrane, H.
Copper as a sacrificial deposit on noble metallic catalysts L1

Barrault, J., Chafik, A. and Gallezot, P.
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257

Bogdanets, E.N., see Hillerová, E. 231

Cameron, Ch.J., see Dubois, J.-L. 49

Cameron, Ch.J., see Dubois, J.-L. 73

Chafik, A., see Barrault, J. 257

Chen, Y., see Hjortkjær, J. 269

Corma, A., Mocholi, F., Orchilles, V., Koermer, G.A. and Madon, R.J.
Methylcyclohexane and methylcyclohexene cracking over zeolite Y catalysts 307

De Beer, V.H.J., see Magnus, P.J. 119

Derouane, E.G., see Maistriau, L. L11

Dimitrov, S.D., see Kamenski, D.I. 159

Djellouli, B., see Ledoux, M.J. 81

Dubois, J.-L. and Cameron, Ch.J.
Common features of oxidative coupling of methane cofeed catalysts 49

Dubois, J.-L., Rebours, B. and Cameron, Ch.J.
Oxidative coupling of methane over thoria based catalysts 73

Dumas, J.M., see Barbier, J. L1

Duplan, J.L. and Praliaud, H.
Infrared determination of the accessible metallic surface of supported palladium containing ceria 325

Feeley, O. and Sachtler, W.
Oxidative redispersion of metals on Y zeolites: Effect of ammonia on Pd/HY rejuvenation 141

Forlani, O., Ancillotti, F., Jóvér, B., Resofszki, G. and Gáti, Gy.
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. I. Development of catalysts 237

Forlani, O., see Ancillotti, F. 249

Fujimoto, K., Omata, K. and Yoshihara, J.
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21

Gáti, Gy., see Ancillotti, F. 249

Gáti, Gy., see Forlani, O. 237

Gabelica, Z., see Maistriau, L. L11

Gallezot, P., see Barrault, J. 257

Geron, C., see Barbier, J. L1

Gorte, R.J., see Parrillo, D.J. 107

Gouromihou, A., see Kordulis, Ch. 39

Grange, P., see Shen, Y.-F. 93

Hadrane, H., see Barbier, J. L1

Haga, T., Nogi, K., Amaya, M. and Nishiyama, Y.
Composite catalysts for carbon gasification 189

Heinrich, B., see Hjortkjær, J. 269

Hillerová, E., Vít, Z., Zdrazil, M., Shkuropat, S.A., Bogdanets, E.N. and Startsev, A.N.
Comparison of carbon and alumina supported nickel–molybdenum sulphide catalysts in parallel hydrodenitrogenation and hydrodesulphurization 231

Hjortkjær, J., Chen, Y. and Heinrich, B.
Methanol carbonylation in a liquid flow system catalyzed by a polymer-bound rhodium(I) complex 269

Hutchings, G.J. and Johnston, P.
Methanol conversion to hydrocarbons: Investigation of the possible role of carbon monoxide in the formation of the initial carbon–carbon bond L5

Inoue, M., Kurusu, A., Terada, K. and Inui, T.
Alcohol synthesis from syngas on alumina-supported iridium-based catalysts: Effects of transition-metal compound additives 203

Inui, T., see Inoue, M. 203

Itoh, H. and Kikuchi, E.
Liquid phase hydrogenation of carbon monoxide over potassium-promoted ultrafine particles of iron and copper 1

Itoh, H., Nagano, S. and Kikuchi, E.

Liquid-phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215
Johnston, P., see Hutchings, G.J. L5
Jóvér, B., see Ancillotti, F. 249
Jóvér, B., see Forlani, O. 237
Kamenski, D.I., Dimitrov, S.D., Sil'chenko, L.A., Shestakov, G.K., Odinzov, K.U. and Temkin, O.N.
Modelling the catalytic hydrochlorination of ethyne 159
Kikuchi, E., see Itoh, H. 1
Kikuchi, E., see Itoh, H. 215
Kikuchi, E., see Uemiya, S. 223
Kishida, M., see Niwa, M. 297
Ko, A.-N., see Shen, Y.-F. 93
Koermer, G.A., see Corma, A. 307
Kokotailo, G.T., see Parrillo, D.J. 107
Kordulis, Ch., Gouromihou, A., Lycourghiotis, A., Papadopoulou, Ch. and Matralis, H.K.
Fluorinated hydrotreatment catalysts: Hydrodeoxygenation and hydrocracking on fluorine–nickel–molybdenum/γ-alumina catalysts 39
Kurusu, A., see Inoue, M. 203
Lambert, R.M., see Shaw, E.A. 151
Ledoux, M.J. and Djellouli, B.
Comparative hydrodenitrogenation activity of molybdenum, Co–Mo and Ni–Mo alumina-supported catalysts 81
Lin, L., Zhang, T., Zang, J. and Xu, Z.
Dynamic process of carbon deposition on Pt and Pt–Sn catalysts for alkane dehydrogenation 11
Liu Y., Yan A. and Xu Q.
Acidity, diffusion and catalytic properties of the silicoaluminophosphate SAPO-11 169
Lycourghiotis, A., see Kordulis, Ch. 39
Madon, R.J., see Corma, A. 307
Magnus, P.J., de Beer, V.H.J. and Moulijn, J.A.
Influence of phosphorus on the structure and the catalytic activity of sulphided carbon-supported Co–Mo catalysts 119
Maistriau, L., Gabelica, Z. and Derouane, E.G.
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11
Matralis, H.K., see Kordulis, Ch. 39
Matsuda, T., see Uemiya, S. 223
Matsui, J., Sodesawa, T. and Nozaki, F.
Influence of carbon dioxide addition upon decay of activity of a potassium-promoted iron oxide catalyst for dehydrogenation of ethylbenzene 179
Mocholi, F., see Corma, A. 307
Mol, J.C., see Sibeijn, M. 279
Moulijn, J.A., see Magnus, P.J. 119
Murakami, Y., see Niwa, M. 297
Nagano, S., see Itoh, H. 215
Nishiyama, Y., see Haga, T. 189
Niwa, M., Suzuki, K., Kishida, M. and Murakami, Y.
Benzaldehyde–ammonia titration method for discrimination between surfaces of metal oxide catalysts 297
Nogi, K., see Haga, T. 189
Nozaki, F., see Matsui, J. 179
Odinzov, K.U., see Kamenski, D.I. 159
Omata, K., see Fujimoto, K. L21
Orchilles, V., see Corma, A. 307
Papadopoulou, Ch., see Kordulis, Ch. 39
Parrillo, D.J., Adamo, A.T., Kokotailo, G.T. and Gorte, R.J.
Amine adsorption on H-ZSM-5 107
Praliaud, H., see Duplan, J.L. 325
Rayment, T., see Shaw, E.A. 151
Rebours, B., see Dubois, J.-L. 73
Resofszki, G., see Ancillotti, F. 249
Resofszki, G., see Forlani, O. 237
Sachtler, W., see Feeley, O. 141
Sato, N., see Uemiya, S. 223
Shaw, E.A., Rayment, T., Walker, A.P. and Lambert, R.M.
In-situ X-ray diffraction structural investigation of methanol synthesis catalysts derived from $CeCu_2$ 151
Shen, Y.-F., Ko, A.-N. and Grange, P.
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Shestakov, G.K., see Kamenski, D.I. 159
Shkuropat, see Hillerová, E. 231
Sibeijn, M. and Mol, J.C.
Activity of supported Re_2O_7 catalysts for the metathesis of methyl oleate 279
Sil'chenko, L.A., see Kamenski, D.I. 159
Sodesawa, T., see Matsui, J. 179
Startsev, A.N., see Hillerová, E. 231
Suzuki, K., see Niwa, M. 297
Temkin, O.N., see Kamenski, D.I. 159

Terada, K., see Inoue, M. 203
Uemiya, S., Sato, N., Ando, H., Matsuda, T. and Kikuchi, E.
Steam reforming of methane in a hydrogen-permeable membrane reactor 223
Ushikubo, T. and Wada, K.
Catalytic properties of hydrated tantalum oxide 25
Vít, Z., see Hillerová, E. 231
Wada, K., see Ushikubo, T. 25
Walker, A.P., see Shaw, E.A. 151
Xu Q., see Liu Y. 169
Xu, Z., see Lin, L. 11
Yan A., see Liu Y. 169
Yoshihara, J., see Fujimoto, K. L21
Zang, J., see Lin, L. 11
Zdrazil, M., see Hillerová, E. 231
Zhang, T., see Lin, L. 11

Subject Index

Acidity
Catalytic properties of hydrated tantalum oxide 25
Acidity
Acidity, diffusion and catalytic properties of the silicoaluminophosphate SAPO-11 169
Acidity
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Adsorption
Amine adsorption on H-ZSM-5 107
Adsorption
Copper as a sacrificial deposit on noble metallic catalysts L1
Ageing
Influence of carbon dioxide addition upon decay of activity of a potassium-promoted iron oxide catalyst for dehydrogenation of ethylbenzene 179
Alcohol synthesis
Alcohol synthesis from syngas on alumina-supported iridium-based catalysts: Effects of transition-metal compound additives 203
Aldol condensation
Catalytic properties of hydrated tantalum oxide 25
Aluminophosphate
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11
Amines
Amine adsorption on H-ZSM-5 107
Basicity
Benzaldehyde–ammonia titration method for discrimination between surfaces of metal oxide catalysts 297
Benzaldehyde–ammonia titration
Benzaldehyde–ammonia titration method for discrimination between surfaces of metal oxide catalysts 297
Benzene alkylation
Catalytic properties of hydrated tantalum oxide 25
Benzene hydrogenation
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257
Bismuth oxide
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21
Butanol dehydration
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Butene isomerization
Catalytic properties of hydrated tantalum oxide 25
Butenes
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. I. Development of catalysts 237
Butenes
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. II. Comparison of catalysts 249
Butenes
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Calcium
Composite catalysts for carbon gasification 189
Carbon dioxide addition
Influence of carbon dioxide addition upon decay of activity of a potassium-promoted iron oxide catalyst for dehydrogenation of ethylbenzene 179
Carbon dioxide hydrogenation
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257
Carbon monoxide
Methanol conversion to hydrocarbons: Investigation of the possible role of carbon monoxide in the formation of the initial carbon–carbon bond L5
Carbon monoxide hydrogenation
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257
Carbon monoxide hydrogenation
Liquid phase hydrogenation of carbon monoxide over potassium-promoted ultrafine particles of iron and copper 1
Carbon monoxide hydrogenation

Liquid phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215
Carbon support
Comparison of carbon and alumina supported nickel–molybdenum sulphide catalysts in parallel hydrodenitrogenation and hydrodesulphurization 231
Catalyst characterization (acidity)
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Catalyst characterization (acidity)
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. I. Development of catalysts 237
Catalyst characterization (adsorption, AEM)
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257
Catalyst characterization (IR, TGA, TPD)
Amine adsorption on H-ZSM-5 107
Catalyst characterization (IR)
Copper as a sacrificial deposit on noble metallic catalysts L1
Catalyst characterization (IR)
Infrared determination of the accessible metallic surface of supported palladium containing ceria 325
Catalyst characterization (morphology, acid–base properties)
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. II. Comparison of catalysts 249
Catalyst characterization (TPS)
Influence of phosphorus on the structure and the catalytic activity of sulphided carbon-supported Co–Mo catalysts 119
Catalyst characterization (XRD)
Oxidative coupling of methane over thoria based catalysts 73
Catalyst characterization (XRD)
In-situ X-ray diffraction structural investigation of methanol synthesis catalysts derived from $CeCu_2$ 151
Catalyst preparation (alloy precursor)
In-situ X-ray diffraction structural investigation of methanol synthesis catalysts derived from $CeCu_2$ 151
Catalyst preparation (polymerization)
Methanol carbonylation in a liquid flow system catalyzed by a polymer-bound rhodium(I) complex 269
Catalyst preparation (refilling)
Copper as a sacrificial deposit on noble metallic catalysts L1
Catalyst preparation (wet impregnation)
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. I. Development of catalysts 237
Catalyst preparation (wet impregnation)
Activity of supported Re_2O_7 catalysts for the metathesis of methyl oleate 279
Catalyst rejuvenation
Oxidative redispersion of metals on Y zeolites: Effect of ammonia on Pd/HY rejuvenation 141
Cerium–copper
In-situ X-ray diffraction structural investigation of methanol synthesis catalysts derived from $CeCu_2$ 151
Coal char
Composite catalysts for carbon gasification 189
Coal gasification
Composite catalysts for carbon gasification 189
Cobalt–molybdenum
Comparative hydrodenitrogenation activity of molybdenum, Co–Mo and Ni–Mo alumina-supported catalysts 81
Coke deposition
Dynamic process of carbon deposition on Pt and Pt–Sn catalysts for alkane dehydrogenation 11
Copper
Copper as a sacrificial deposit on noble metallic catalysts L1
Cracking catalysts
Methylcyclohexane and methylcyclohexene cracking over zeolite Y catalysts 307
Deactivation
Influence of carbon dioxide addition upon decay of activity of a potassium-promoted iron oxide catalyst for dehydrogenation of ethylbenzene 179
Deactivation
Dynamic process of carbon deposition on Pt and Pt–Sn catalysts for alkane dehydrogenation 11

Dehydrogenation
Dynamic process of carbon deposition on Pt and Pt–Sn catalysts for alkane dehydrogenation 11
Diffusion
Acidity, diffusion and catalytic properties of the silicoaluminophosphate SAPO-11 169
Dispersion
Infrared determination of the accessible metallic surface of supported palladium containing ceria 325
Dispersion
Oxidative redispersion of metals on Y zeolites: Effect of ammonia on Pd/HY rejuvenation 141
Ethane
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21
Ethene
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21
Ethylbenzene dehydrogenation
Influence of carbon dioxide addition upon decay of activity of a potassium-promoted iron oxide catalyst for dehydrogenation of ethylbenzene 179
Ethyne hydrochlorination
Modelling the catalytic hydrochlorination of ethyne 159
Fischer–Tropsch synthesis
Liquid-phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215
Fischer–Tropsch synthesis
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257
Fischer–Tropsch synthesis
Liquid phase hydrogenation of carbon monoxide over potassium-promoted ultrafine particles of iron and copper 1
Fluorination
Fluorinated hydrotreatment catalysts: Hydrodeoxygenation and hydrocracking on fluorine–nickel–molybdenum/γ-alumina catalysts 39
Hydrocracking
Fluorinated hydrotreatment catalysts: Hydrodeoxygenation and hydrocracking on fluorine–nickel–molybdenum/γ-alumina catalysts 39
Hydrodenitrogenation
Comparison of carbon and alumina supported nickel–molybdenum sulphide catalysts in parallel hydrodenitrogenation and hydrodesulphurization 231
Hydrodenitrogenation
Comparative hydrodenitrogenation activity of molybdenum, Co–Mo and Ni–Mo alumina-supported catalysts 81
Hydrodeoxygenation
Fluorinated hydrotreatment catalysts: Hydrodeoxygenation and hydrocracking on fluorine–nickel–molybdenum/γ-alumina catalysts 39
Hydrodesulphurization
Comparison of carbon and alumina supported nickel–molybdenum sulphide catalysts in parallel hydrodenitrogenation and hydrodesulphurization 231
Hydrodesulphurization
Influence of phosphorus on the structure and the catalytic activity of sulphided carbon-supported Co–Mo catalysts 119
Hydrogen
Steam reforming of methane in a hydrogen-permeable membrane reactor 223
Hydrotreatment catalysts
Fluorinated hydrotreatment catalysts: Hydrodeoxygenation and hydrocracking on fluorine–nickel–molybdenum/γ-alumina catalysts 39
Iridium/alumina
Alcohol synthesis from syngas on alumina-supported iridium-based catalysts: Effects of transition-metal compound additives 203
Iron
Composite catalysts for carbon gasification 189
Iron
Liquid-phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215
Iron
Liquid phase hydrogenation of carbon monoxide over potassium-promoted ultrafine particles of iron and copper 1

Iron–copper
Liquid phase hydrogenation of carbon monoxide over potassium-promoted ultrafine particles of iron and copper 1
Iron–potassium
Influence of carbon dioxide addition upon decay of activity of a potassium-promoted iron oxide catalyst for dehydrogenation of ethylbenzene 179
Isobutene hydration
Catalytic properties of hydrated tantalum oxide 25
Isomerization
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. I. Development of catalysts 237
Isomerization
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. II. Comparison of catalysts 249
Isotopic labelling
Methanol conversion to hydrocarbons: Investigation of the possible role of carbon monoxide in the formation of the initial carbon–carbon bond L5
Kinetics
Modelling the catalytic hydrochlorination of ethyne 159
Kinetics
Comparative hydrodenitrogenation activity of molybdenum, Co–Mo and Ni–Mo alumina-supported catalysts 81
Kinetics
Methanol carbonylation in a liquid flow system catalyzed by a polymer-bound rhodium(I) complex 269
Leaching
Methanol carbonylation in a liquid flow system catalyzed by a polymer-bound rhodium(I) complex 269
Lead oxide
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21
Mathematical modelling
Modelling the catalytic hydrochlorination of ethyne 159
MCM-9
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11
Membrane reactor
Steam reforming of methane in a hydrogen-permeable membrane reactor 223
Metal dispersion
Oxidative redispersion of metals on Y zeolites: Effect of ammonia on Pd/HY rejuvenation 141
Metal oxides
Benzaldehyde–ammonia titration method for discrimination between surfaces of metal oxide catalysts 297
Methacrylic acid esterification
Catalytic properties of hydrated tantalum oxide 25
Methane
Steam reforming of methane in a hydrogen-permeable membrane reactor 223
Methane oxidation
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21
Methane oxidative coupling
Common features of oxidative coupling of methane cofeed catalysts 49
Methane oxidative coupling
Oxidative coupling of methane over thoria based catalysts 73
Methanol carbonylation
Methanol carbonylation in a liquid flow system catalyzed by a polymer-bound rhodium(I) complex 269
Methanol conversion
Methanol conversion to hydrocarbons: Investigation of the possible role of carbon monoxide in the formation of the initial carbon–carbon bond L5
Methanol synthesis
In-situ X-ray diffraction structural investigation of methanol synthesis catalysts derived from $CeCu_2$ 151
Methyl oleate metathesis
Activity of supported Re_2O_7 catalysts for the metathesis of methyl oleate 279
Methylcyclohexane cracking
Methylcyclohexane and methylcyclohexene cracking over zeolite Y catalysts 307
Methylcyclohexene cracking
Methylcyclohexane and methylcyclohexene cracking over zeolite Y catalysts 307
Molecular sieves

Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11
Molten metals
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21
Molybdenum
Comparative hydrodenitrogenation activity of molybdenum, Co–Mo and Ni–Mo alumina-supported catalysts 81
Montmorillonite
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Naphthene cracking
Methylcyclohexane and methylcyclohexene cracking over zeolite Y catalysts 307
Nickel–molybdenum
Comparative hydrodenitrogenation activity of molybdenum, Co–Mo and Ni–Mo alumina-supported catalysts 81
Nickel–molybdenum/carbon
Comparison of carbon and alumina supported nickel–molybdenum sulphide catalysts in parallel hydrodenitrogenation and hydrodesulphurization 231
Nickel–rare earth/carbon
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257
Nitric acid adsorption
Fluorinated hydrotreatment catalysts: Hydrodeoxygenation and hydrocracking on fluorine–nickel–molybdenum/γ-alumina catalysts 39
Palladium
Steam reforming of methane in a hydrogen-permeable membrane reactor 223
Palladium/alumina
Infrared determination of the accessible metallic surface of supported palladium containing ceria 325
Palladium/ceria
Infrared determination of the accessible metallic surface of supported palladium containing ceria 325
Palladium/zeolite
Oxidative redispersion of metals on Y zeolites: Effect of ammonia on Pd/HY rejuvenation 141
Peroxide
Oxidative coupling of methane over thoria based catalysts 73
Peroxycarbonate
Oxidative coupling of methane over thoria based catalysts 73
Phosphorus
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Phosphorus–cobalt–molybdenum
Influence of phosphorus on the structure and the catalytic activity of sulphided carbon-supported Co–Mo catalysts 119
Pillared clays
Study of phosphorus-modified aluminum pillared montmorillonite. I. Effect of the nature of phosphorus compounds 93
Platinum
Dynamic process of carbon deposition on Pt and Pt–Sn catalysts for alkane dehydrogenation 11
Platinum complexes
Modelling the catalytic hydrochlorination of ethyne 159
Platinum–tin
Dynamic process of carbon deposition on Pt and Pt–Sn catalysts for alkane dehydrogenation 11
Pore size
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11
Post synthesis treatment
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11
Preoxidation
Liquid-phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215
Pyridine
Comparative hydrodenitrogenation activity of molybdenum, Co–Mo and Ni–Mo alumina-supported catalysts 81
Rare earth
In-situ X-ray diffraction structural investigation of methanol synthesis catalysts derived from $CeCu_2$ 151
Reaction mechanism
Methanol conversion to hydrocarbons: Investigation of the possible role of carbon monoxide

in the formation of the initial carbon–carbon bond L5
Reactor simulation
Modelling the catalytic hydrochlorination of ethyne 159
Regeneration
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals L21
Rhenium oxide/alumina
Activity of supported Re_2O_7 catalysts for the metathesis of methyl oleate 279
Rhodium/alumina
Copper as a sacrificial deposit on noble metallic catalysts L1
Rhodium/polymer
Methanol carbonylation in a liquid flow system catalyzed by a polymer-bound rhodium(I) complex 269
SAPO-8
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11
Selectivity (alcohols)
Alcohol synthesis from syngas on alumina-supported iridium-based catalysts: Effects of transition-metal compound additives 203
Selectivity (1-butene)
Industrial scale selective high-temperature conversion of 2-butene to 1-butene. I. Development of catalysts 237
Selectivity (ethane, ethene)
Selective oxidation of methane to ethane and ethene with metal oxides in molten metals
Selectivity (light alkenes)
Conversion of carbon oxide(s) on carbon-supported, nickel–rare earth catalysts 257 L21
Selectivity (methyl methacrylate)
Catalytic properties of hydrated tantalum oxide 25
Semiconductivity (p-type)
Common features of oxidative coupling of methane cofeed catalysts 49
Semiconductors
Oxidative coupling of methane over thoria based catalysts 73
Sintering
Liquid-phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215
Sodium
Composite catalysts for carbon gasification 189
Solid acid
Catalytic properties of hydrated tantalum oxide 25
Steam
Composite catalysts for carbon gasification 189
Steam reforming
Steam reforming of methane in a hydrogen-permeable membrane reactor 223
Strontium
Oxidative coupling of methane over thoria based catalysts 73
Sulphide catalysts
Comparison of carbon and alumina supported nickel–molybdenum sulphide catalysts in parallel hydrodenitrogenation and hydrodesulphurization 231
Sulphidization
Influence of phosphorus on the structure and the catalytic activity of sulphided carbon-supported Co–Mo catalysts 119
Superacid
Catalytic properties of hydrated tantalum oxide 25
Superoxide
Oxidative coupling of methane over thoria based catalysts 73
Surface area
Activity of supported Re_2O_7 catalysts for the metathesis of methyl oleate 279
Surface structure
Benzaldehyde–ammonia titration method for discrimination between surfaces of metal oxide catalysts 297
Syngas conversion
In-situ X-ray diffraction structural investigation of methanol synthesis catalysts derived from $CeCu_2$ 151
Syngas conversion
Alcohol synthesis from syngas on alumina-supported iridium-based catalysts: Effects of transition-metal compound additives 203
Syngas conversion
Liquid phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215
Syngas conversion

Liquid phase hydrogenation of carbon monoxide over potassium-promoted ultrafine particles of iron and copper 1

Tantalum oxide
Catalytic properties of hydrated tantalum oxide 25

Thoria
Oxidative coupling of methane over thoria based catalysts 73

Toluene alkylation
Acidity, diffusion and catalytic properties of the silicoaluminophosphate SAPO-11 169

Ultrafine particles
Liquid-phase Fischer–Tropsch synthesis on ultrafine particles of iron: Effect of preoxidation treatment 215

Ultrafine particles
Liquid phase hydrogenation of carbon monoxide over potassium-promoted ultrafine particles of iron and copper 1

VPI-5
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11

Xylene isomerization
Acidity, diffusion and catalytic properties of the silicoaluminophosphate SAPO-11 169

Zeolites
Amine adsorption on H-ZSM-5 107

Zeolites
Methylcyclohexane and methylcyclohexene cracking over zeolite Y catalysts 307

Zeolites
Methanol conversion to hydrocarbons: Investigation of the possible role of carbon monoxide in the formation of the initial carbon–carbon bond L5

Zeolites
Transformation of MCM-9 into SAPO-8 by various post-synthesis treatments L11

Zeolites
Oxidative redispersion of metals on Y zeolites: Effect of ammonia on Pd/HY rejuvenation 141

Zeolites
Acidity, diffusion and catalytic properties of the silicoaluminophosphate SAPO-11 169